PRODUCT PERFORMANCE / EFFICACY REVIEW

Mark Suarez, Entomologist - IB

DATE:	7 August 2007
EPA REG. NUMBER:	40849-80
PRODUCT NAME:	Enforcer Bugmax Home Pest Control
REGISTRANT:	Enforcer Products
PM:	George LaRocca, PM 13
REVIEWER:	Olga Odiott
DECISION #.:	372976
DP BARCODE:	335474
ACTION:	R34
ACTIVE INGREDIENT(S):	097805, deltamethrin…….....0.03%
TYPE:	Outdoor Residential Insecticide
OPPTS GUIDELINE(S):	810.1000 810.3000 810.3500
MRID:	46909101 Submitted GLP? Yes
SITES:	Indoor & Outdoor Use
PESTS:	Brown Recluse & Black Widow Spiders
LABEL APPLICATION RATE:	Until surface is slightly moist, but not until runoff

STUDY SUMMARY:

MRID 46989101. Foard, T. (2005) Evaluation of the Efficacy of Enforcer Bugmax 365 against Black Widow and Recluse Spiders. Project Number: G1051004001A144, 1004/105/0115. Unpublished study prepared by Insect Control and Research Inc. 47 p.

A laboratory study was submitted in support of kill claims against black widow (*Latrodectus* spp.) and brown recluse spiders (*Loxosceles* spp.). Five spiders were placed into a bucket sprayed directly with 1.14 to 1.23 g of product from a height of 10 to 18" and then transferred to a clean recovery chamber. Ten replicates were run for each species. Knockdown was recorded at 1 hour and morbidity and mortality were recorded after 24 hours.

The data generated indicate that Black widow spiders are highly susceptible to the product with nearly 100% KD at 1 hour and 100% mortality observed after 24 hours. The brown recluse spider was less affected by the product. Approximately a quarter of spiders were knocked down. After 24 hours, 48% of spiders were found to be dead with an additional 52% moribund.

ENTOMOLOGIST'S COMMENTS AND RECOMMENDATIONS:

The data provided are adequate to support a direct contact kill claim against black wido spiders (*Latrodectus* spp.) and brown recluse spiders (*Loxosceles* spp.). Although the data provided for brown recluse spiders are did not provide the mortality desired, the combined number of moribund and dead spiders was 100%.

The data neither support claims of quick or fast kill nor are residual claims supported.

Enclosure
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